## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 20 January 2005 (20.01.2005)

PCT

## (10) International Publication Number WO 2005/006410 A1

(51) International Patent Classification<sup>7</sup>: 21/306

H01L 21/00,

(21) International Application Number:

PCT/IB2004/051166

(22) International Filing Date:

8 July 2004 (08.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

03102115.7

11 July 2003 (11.07.2003) EP

03103918.3

23 October 2003 (23.10.2003) EP

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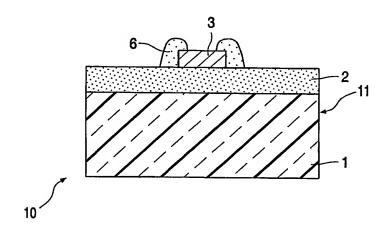
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG).

#### Declaration under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ. CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP. KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM,

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(54) Title: METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE AND AN APPARATUS FOR USE IN SUCH A **METHOD** 



(57) Abstract: The invention relates to a method of manufacturing a semiconductor device (10) with a substrate (1) and a semiconductor body (11) which comprises at least one semiconductor element, wherein, after formation of the element, a layer structure is formed which comprises at least one electrically insulating layer (2) or an electrically conductive layer (3), wherein an opening is formed in the layer structure with the aid of a patterned photoresist layer (4) and an etching process, wherein residues are formed on the surface of the semiconductor body (11) during the etching process, and wherein the photoresist layer (4) is ashed, after the etching process, by means of a treatment with an oxygen-containing compound, after which the surface is

subjected to a cleaning operation using a cleaning agent comprising a diluted solution of an acid in water and being heated to a temperature above room temperature, thereby causing the residues formed to be removed. According to the invention, sulphuric acid is chosen as the acid for the cleaning agent.

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ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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### Published:

with international search report